

Amendments to the Claims

Claims 1-72 (Cancelled)

Claim 73 (Currently amended): A method of producing a vaccine, comprising:
constructing a plasmid vector or DNA fragment by operably linking a DNA sequence encoding an immunogenic viral antigen to a plant functional promoter capable of directing expression of said viral antigen in a plant;
transferring the plasmid vector or DNA fragment into a cell of said plant;
regenerating a transgenic plant from said cell;
harvesting a portion of said regenerated transgenic plant, said portion containing said expressed immunogenic viral antigen, ~~and wherein said expressed antigen stimulates an immune response;~~
and
purifying said expressed antigen, ~~so that most of the plant material is removed wherein said~~
expressed antigen, when orally administered to an animal, stimulates production of antibodies
with specificity for said antigen in said animal.

Claim 74: The method of claim 73 wherein said plant is a tomato plant.

Claim 75: The method of claim 73 wherein said plant is a potato plant.

Claims 76-78 (Withdrawn)

Claim 79: The method of claim 73 wherein said DNA sequence is a DNA sequence encoding a hepatitis virus immunogen.